## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE                                   |
|---------------------------|----------|--------|--|
| FEE DETERMINATION         | 17:23    | 1      | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| O.I.P.E. CLASSIFIER       |          | 1/2    | 11/2/22                                |
| FORMALITY REVIEW          | TL       | GUZ    | 11/07/100                              |
| RESPONSE FORMALITY REVIEW |          |        | 1100100                                |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled |     | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

|                 |          |         |              | <u>*</u>                               |                |                |  |          |              |                    |   |     | Restricted    |          |   |  |  |                  |              | 0            |   |  |
|-----------------|----------|---------|--------------|--|----------------|----------------|--|----------|--------------|--------------------|---|-----|---------------|----------|---|--|--|------------------|--------------|--------------|---|--|
| Ci              | <br>aim  | L       |              |  |                | Di             | ate  |          |              |                    |   | 7   | Cla           | aim      | 1 | -  |  |                  | Da           | ate          |   |  |
| Final           | Driginal | 1019    |              |  |                |                |  |          |              |                    |   |     | Final         | Original |   |  | Γ  |                  |              | T            |   |  |
| E               | -        |         | +            | +                                      | +              | +              | +  | +        | +            | ╁                  | +   | -   | ٠             | Õ<br>51  | H | -  | $\vdash$                                     | +                | ╀            | -            | + |  |
|                 | 2        | Ĭ       | t            | +-                                     | $\dagger$      | +              | +-   | +        | +            | +                  | +   | 1   | Т             | 52       | 1 | +  | 十  | +                | 1.           | $\dagger$    | † |  |
|                 | 3        | 1       | T            | $\top$                                 | +              | Ť              | †  | †        | +            | +                  | $^{+}$  | 1   | Г             | 53       | - | †  | +  | T                | †            | $\dagger$    | t |  |
|                 | 4        | H       | $^{\dagger}$ | 十                                      | ╈              | +              | †  | +-       | +            | +                  | +-  | 1   |               | 54       | H |  | t  | †                | +            | +-           | + |  |
|                 | 5        | Ħ       | T            | +                                      | T              | $\top$         | 1  | 1        | $\top$       | T                  | 1   | 1   |               | 55       | _ | T  | 1  | 1                | T            | $\top$       | t |  |
|                 | 6        | П       |              |  | 1              | 1              | $\top$                                       | Τ        | T            | T                  | T   | 1   |               | 56       |   |  |  | T                |              | T            | † |  |
|                 | 7        | Т       | T            | T                                      | Т              | T              | $\top$                                       | $\top$   |              | Τ                  | 1   | 1   |               | 57       |   |  |  |                  |              | T            | T |  |
| Г               | 8        | П       | T            | T                                      | 1              |                | Т  | T        | T            | T                  | T   | 1   |               | 58       |   |  | Γ  | T                |              | Т            | T |  |
|                 | 9        |         | Τ            | T                                      |                |                | Т  | П        | Т            |                    |   |     |               | 59       |   |  |  |                  |              | T            | Ť |  |
|                 | 10       |         | Ι.           | Τ                                      | Τ              | T              | Т  | П        |              | П                  | Ţ   |     |               | 60       |   |  |  | Π                | T            | Т            | T |  |
|                 | 11       | П       |              |  |                |                |  | i<br>i   |              |                    |   |     |               | 61       |   |  | ·  |                  | L            | П            | Ι |  |
|                 | 12       | $\prod$ | L            | $\perp$                                | Ţ              |                | L  | $\Box$   | L            |                    |   |     |               | 62       |   |  |  |                  |              |              | Ι |  |
|                 | 2)       | 2       | L            | L                                      |                | L              | Ľ  | L        | L            | $oxedsymbol{oxed}$ | L   |     |               | 63       |   |  | L  |                  | L            |              | I |  |
| L               | 14       | 1       | L            | $\perp$                                | L              |                | L  | L        | L            |                    | L   |     |               | 64       |   | L  |  |                  |              |              |   |  |
| Ш               | 15       | 1       | L            | L                                      | $\perp$        |                | L  | L        |              |                    | $\perp$                                       |     |               | 65       |   |  | $\Box$                                       | Ĺ                | L            | L            | ľ |  |
| <i>j</i>        | 16       | 1       | L            | 1                                      | L.             | <u>L</u>       | L  |          |              | L                  | ┖   |     |               | 66       |   |  | L  | L                |              |              | L |  |
| ٠. ١            | 17       | 1       | _            | 1                                      | $\perp$        | ↓_             | L  | L        |              | L                  | 上   |     | _             | 67       |   | L  |  | ļ. <u>.     </u> | L            | <u></u>      | L |  |
| Ш               | 18       | 1       | L            | 1_                                     | _              | L              | L  | L        |              | L.                 | <u> </u>                                      |     | _             | 68       |   |  | L  |                  |              |              | L |  |
|                 | 19       | 1       | L            | L                                      | 1              | ↓              | _  | L        | 匚            |                    | L   |     | _             | 69       |   | _  | L  | L                | L            |              | L |  |
| Ŀ               | 20       |         | L            | <u> </u>                               | 1              |                |  | L        |              | l                  |   |     |               | 70       |   |  |  |                  |              | l            |   |  |
|                 | 21       |         |              |  |                |                |  |          | L            |                    |   |     |               | 71       |   |  |  |                  |              |              | Ι |  |
|                 | 22       | 1       |              |  |                | Ľ              |  |          |              |                    |   |     |               | 72       |   |  |  |                  |              |              | I |  |
|                 | 23       |         | L            | L                                      |                |                |  |          |              |                    |   |     |               | 73       |   |  |  | ·                |              |              | I |  |
|                 | 24       | 1       |              |  |                |                |  |          | $oxed{oxed}$ |                    |   |     |               | 74       |   | •  |  |                  |              |              | I |  |
|                 | 25       | 1       | L            | L                                      |                |                | <u> </u>                                     | L.,      | L            |                    | <u> </u>                                      |     |               | 75       |   |  |  |                  |              |              |   |  |
| Ш               | 26       | 1       | L            |  |                | L              | <u> </u>                                     |          | · ·          |                    |   |     | $\overline{}$ | 76       |   |  |  |                  |              |              | Ĺ |  |
| Ш               | 27       | 1       | L            | <u> </u>                               | _              |                |  | _        | L            | L                  | <u> </u>                                      |     | 1             | 77       |   |  |  |                  |              | <u> </u>     | L |  |
| Ш               | 28       | 4       | L            | 1                                      | ┖              | _              | ļ  | <u></u>  | <u> </u>     | L                  | <u> </u>                                      |     |               | 78       |   |  |  |                  |              | <u>L</u>     | L |  |
| Ш               | 29       | 4       | L            | ↓_                                     | Ŀ              | <u> </u>       | <u> </u>                                     | <u> </u> |              | L                  | $ldsymbol{f eta}$                             |     |               | 79       |   |  | Ŀ  | _                |              | L_           | L |  |
|                 | 30       | 4       | <u> </u>     |  |                | 上              | L  | L        | <u> </u>     | Ш                  | L   |     |               | 80       |   | _  |  | ļ                |              | L            | L |  |
| Ш               | 31       | 4       | L            | ــــــــــــــــــــــــــــــــــــــ | <u> </u>       | <b>!</b>       | <u> </u>                                     | _        | L            |                    | <u> </u>                                      |     | _             | 81       |   |  | L  | _                |              | ļ            | L |  |
|                 | 32       | 4       | _            | <u> </u>                               | <del> </del> _ | _              | ╙  | <u> </u> | <u> </u>     | <u> </u>           | <u> </u>                                      |     |               | 82       | _ |  | L  | <u> </u>         | <u>L</u>     | <u> </u>     | Ļ |  |
| Н               | 33       | -       | ٠            | ₽.                                     | ╄              | 1_             | ┡  | <u> </u> | ļ            | _                  | <u> </u>                                      |     |               | 83       |   | _  | L  | <u> </u>         | <u> </u>     | <u> </u>     | Ļ |  |
| Н               | 34       | Ł       | <b>F</b>     | ļ                                      | ┼              | $\vdash$       | $\vdash$                                     | <u> </u> | <u> </u>     | <u> </u>           | <u> </u>                                      |     | _             | 84       |   | $\vdash$                                     | <u> </u>                                     | <u> </u>         | _            | <u> </u>     | L |  |
| Н               | 35<br>36 |         | $\vdash$     | -                                      | $\vdash$       | $\vdash$       | -  | -        | _            | $\vdash$           | $\vdash$                                      |     |               | 85<br>86 |   | H  | <u> </u>                                     | <u> </u>         | -            | <u> </u>     | L |  |
| Н               | 37       |         | -            | ╀                                      | ╀              | ┼              | ـ  | $\vdash$ | $\vdash$     | ⊢                  | ├-  |     | $\rightarrow$ | -        |   | <u> </u>                                     |  | ├_               | _            | ┞            | ╀ |  |
| Н               | 38       |         | -            | $\vdash$                               | +              | ┼              | ⊢  | -        | <del> </del> | <b> </b>           | Ͱ   |     |               | 87       |   |  | <u> </u>                                     | ├                | -            | -            | 1 |  |
| $\vdash\vdash$  | 39       |         | -            | -                                      | +              | ╀              | $\vdash$                                     | -        |              |                    |   |     | _             | 88       |   | <u> </u>                                     | _  | L                | $\vdash$     | -            | + |  |
| $\vdash$        | 40       |         | $\vdash$     | +-                                     | $\vdash$       | +-             | -  | -        | -            | H                  | -   |     |               | 89       |   | _  | <u> </u> -                                   | <del> </del>     |              | ├-           | + |  |
| $\vdash$        |          | _       | $\vdash$     | -                                      | -              | -              | 1  | $\vdash$ | _            | <u> </u>           | 1   |     |               | 90       |   | <u> </u>                                     | _  | <u> </u>         | _            | L            | 1 |  |
| Щ               | 41       |         | 1            | -                                      | $\vdash$       | 1_             | $\vdash$                                     | _        | ļ            | ١                  | _   |     | _             | 91       |   |  | _  | _                | _            | L            | 1 |  |
| $\vdash \vdash$ | 42       |         | $\vdash$     | -                                      | ╄              | <del> </del>   | $\vdash$                                     | _        | $\vdash$     | <u> </u>           | <u> </u>                                      |     | -             | 92       |   | L  | _  | <u> </u>         | ļ            | $\vdash$     | 1 |  |
| Н               | 43       | _       | -            | +-                                     | ┼              | <del> </del> — | ┺  | <u> </u> | <del> </del> | -                  | ــ  |     |               | 93       | _ | $\vdash$                                     | _  | ⊢                | <del> </del> | <del> </del> | 1 |  |
| $\vdash$        | 44       |         | -            | $\vdash$                               | ╄              | 1              | ـ  | _        | <u> </u>     |                    | <del> </del> -                                |     |               | 94       |   | L  | _  | -                | -            | <del> </del> | 1 |  |
| $\vdash \dashv$ | 45<br>46 |         | $\vdash$     | ┼                                      | Ļ              | +-             | ╀  | -        |              | -                  | -   |     |               | 95       | _ | <u> </u>                                     | _  | <b>!</b>         | <del> </del> | <del> </del> | ļ |  |
| $\vdash$        | 46       |         | $\vdash$     | ₽                                      | ╀              | -              | -  |          | -            |                    | $\vdash$                                      |     |               | 96       |   |  |  | <del> </del>     | ⊢-           | ├            | ļ |  |
| Н               | 47<br>48 |         | -            | $\vdash$                               | -              | <u> </u>       | -  | <u> </u> | $\vdash$     | <u> </u>           | <del> </del>                                  |     |               | 97       |   | <u> </u>                                     | <u> </u>                                     | -                | -            | <u> </u>     | ∔ |  |
| $\vdash$        | 48       |         | +            | -                                      | $\vdash$       | +-             | $\vdash$                                     | -        | <del> </del> | ļ.                 | -   |     | <b>-</b>      | 98       |   | <u> </u>                                     | <u> </u>                                     | -                | $\vdash$     | $\vdash$     | + |  |
| $\vdash$        | 50       |         | -            | -                                      | <del> </del> - | +-             | -  | <u> </u> | -            | -                  | ⊢   |     |               | 99       |   | -  | -  | -                | ₩-           | !            | + |  |
| نـــا           | 301      |         | 1            | 1                                      | !              | <u>L.</u>      | <u>.                                    </u> | L.       | 1            | <u> </u>           | <u>i                                     </u> | 1 : | I             | 100      |   | <u>.                                    </u> | <u>.                                    </u> | !                | <u> </u>     | ١            | ! |  |

| Cla           | im         |          |  |               |           | Da             | ıte      | _              |                |          | _        |
|---------------|------------|----------|--|---------------|-----------|----------------|----------|----------------|----------------|----------|----------|
|               |            | Г        | Π  | Γ             | Γ         | T              | Г        | Τ              | Τ              | Т        | Т        |
| ă             | Original   |          |  |               |           |                |          |                |                |          | 1        |
| Final         | ō          |          |  |               | 1         | 1              |          |                |                | 1        | 1        |
|               | 101        | _        | $\vdash$   | 1             | 1-        | +              | +-       | ┼-             | $\vdash$       | +-       | ┢        |
|               | 102        | _        | <del> </del>                                     | 十             | 1-        | +              | +-       | <del> </del> - | ┼─             | ├-       | ╁        |
|               | 103        |          | H  | ╁             | +         | ╁╌             | ╀        | ╁              | ⊢              | -        | ┝        |
| -             | 104        | _        | ┼  | $\vdash$      | ╁╴        | ├              | ├        | ├-             | ⊢              | ⊢        | <u> </u> |
| -             | 105        | -        | <del>                                     </del> | ┢             | +         | ╫              | ┝        | ╀              |                | ╁        | H        |
| $\neg$        | 106        | <u>.</u> | -  | -             | ┼-        | ╁              | ┢        | <del> </del>   | ├-             | -        | H        |
| $\dashv$      | 107        |          | ╆-   | ┝             | $\vdash$  | ⊢              | -        | ├-             | ├              | ⊢        | -        |
| $\neg$        | 108        |          | ┢  | -             | ╁         | ╁              | ┢        | ├-             | ├              | ⊢        | ⊢        |
| -             | 109        |          | ┢  | -             | $\vdash$  | ┢              | ├        | ├              | ⊢              | -        | H        |
|               | 110        |          | -  | ⊢             | -         | -              | ⊢        | ├-             | -              | -        | -        |
|               | 111        |          |  | $\vdash$      | <u> </u>  | ⊬              | ├        | ├              | ⊢              | _        | ┡        |
| $\overline{}$ | 112        |          |  | ⊢             | ├         | ļ.             | -        | -              | ├              |          | $\vdash$ |
| _             | 113        | _        | ⊢  | ŀ             | -         | <u> -</u>      |          | ├-             | <u> </u>       | -        | <u> </u> |
| -+            |            | _        | $\vdash$   | -             | -         | -              | -        | <u> </u>       | -              | H        | <u> </u> |
|               | 114        |          | H  |               | ┝         | ⊢              | -        | <u> </u>       | -              | Н        |          |
|               | 115        | _        | <u> </u>   | <del>لے</del> | <u>/_</u> | L              | <u> </u> | -              | <u> </u>       |          |          |
| $\rightarrow$ | 116        |          | <u> </u>   | /             | <u> </u>  |                | <u> </u> | <u> </u>       | L.,            | _        |          |
| _             | 117        | _        | $\angle$   |               | <u> </u>  | L              |          | L              |                |          |          |
|               | 118        | _        |  | Ш             |           |                | _        | <u> </u>       |                |          |          |
| _             | 138        |          |  |               | L.        | _              |          | Щ.             |                | Ц        |          |
|               | 20         |          |  |               |           |                |          |                |                |          |          |
|               | 121        |          |  |               |           |                |          |                |                |          | _        |
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| -             | 125        |          |  |               |           |                |          |                |                |          |          |
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| 1             | 127        |          |  |               |           |                |          |                |                |          |          |
| Ŧ             | 128        |          |  |               |           |                |          |                |                |          |          |
| 7             | 29         |          |  |               |           |                |          |                |                |          | ,        |
| -             | 130        |          |  | Г             |           |                |          |                |                |          |          |
| ·             | 131        |          |  |               |           |                |          | Г              |                |          |          |
| $\overline{}$ | 132        |          |  |               |           |                |          |                |                |          |          |
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| 1             | 135        |          |  |               | Π         |                |          |                |                |          |          |
| 7             | 136        |          |  |               |           |                |          |                |                |          |          |
| -             | 137        |          |  |               |           |                |          |                |                |          |          |
| 1             | 38         |          |  |               | Г         |                |          |                |                |          |          |
|               | 39         |          |  | Г             | Г         |                |          |                |                |          |          |
|               | 40         |          |  | Γ             |           |                |          | Γ              |                |          |          |
|               | 141        |          |  |               | $\vdash$  | Г              | Ι_       | Г              |                |          |          |
|               | 142        |          | $\vdash$   | $\vdash$      | $\vdash$  | $\vdash$       |          | $\vdash$       | _              | Т        | Г        |
|               | 143        | _        | -  | $\vdash$      | -         | <del> </del>   |          |                | Г              | _        | 1        |
|               | 144        |          |  | -             |           | <del>  -</del> | $\vdash$ | -              | -              | -        | Т        |
|               | 45         |          | -  | -             | -         | -              | $\vdash$ | <del> </del>   | -              | -        | Н        |
|               | 46         |          | $\vdash$   | $\vdash$      | -         | $\vdash$       | -        | $\vdash$       | <del>  -</del> | -        | ┢        |
|               | 147        |          | -  | $\vdash$      | -         | -              | $\vdash$ | -              | ┢╾             | $\vdash$ | -        |
|               |            |          | $\vdash$   |               | -         | -              | -        | ├-             | -              | -        | -        |
| 4             | 148        |          |  | _             | -         | -              | -        | -              | -              | -        | $\vdash$ |
|               | 149<br>150 | _        |  | _             |           | -              | ┝        | ├-             | Н-             | ├-       | -        |

If more than 150 claims or 10 actions staple additional sheet here

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